INFORMATION CIRCULAR No. 151 (OCTOBER 2003)

| NEW ORBITS |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { ADS } \\ \alpha 2000 \delta \end{gathered}$ | Name <br> n | $\mathbf{P}$ | $\begin{gathered} \mathrm{T} \\ \mathrm{i} \end{gathered}$ | $\begin{aligned} & \mathbf{e} \\ & \omega \end{aligned}$ | $\Omega(2000)$ <br> Last ob. | $\begin{aligned} & 2003 \\ & 2004 \end{aligned}$ | Author(s) |
| 17180 | A 1249 | $129^{y} 72$ | 1989.44 | 0.046 | $59^{\circ} 4$ | $131^{\circ} 00^{\prime \prime} 046$ | ZIRM |
| $00024+1047$ | $2^{\circ} 7751$ | $0^{\prime \prime} 366$ | $97^{\circ} 2$ | $231^{\circ} 4$ | 1995.9180 | 112.40 .055 |  |
| 51 | HU 1201 | 47.06 | 1983.89 | 0.651 | 128.1 | 307.70 .216 | ZIRM |
| $00055+3406$ | 7.6505 | 0.138 | 91.5 | 23.9 | 1998.7798 | 307.60 .216 |  |
| 2044 | SEE 19 | 212.56 | 2027.22 | 0.899 | 177.1 | 271.30 .207 | LING |
| 02405-2408 | 1.6936 | 0.523 | 112.3 | 63.5 | 1996.8954 | 269.40 .201 |  |
|  | LPM 248 | 298.34 | 1978.30 | 0.320 | 39.9 | 283.71 .136 | ZIRM |
| 06579-4417 | 1.2067 | 4.396 | 107.9 | 42.2 | 1993.9824 | 278.71 .194 |  |
| 6999 | BU 586 | 962.25 | 1992.91 | 0.672 | 71.4 | 200.40 .160 | MANTE |
| 08474-1703 | 0.3741 | 0.919 | 65.2 | 83.5 | 1996.8666 | 204.00 .168 |  |
|  | FIN 364 | 35.84 | 1989.18 | 0.951 | 97.9 | 124.00 .149 | MANTE |
| 10465-6416 | 10.0446 | 0.145 | 106.0 | 122.8 | 1993.0903 | 123.20 .155 |  |
| 9909 | STF 1998 AB | 45.90 | 2043.12 | 0.743 | 27.0 | 330.30 .557 | DOCOBO |
| 16044-1122 | 7.8431 | 0.654 | 33.3 | 162.2 | 2001.5619 | 335.70 .624 | \& LING |
| 11640 | FIN 332 Aa (I) | 50.96 | 1956.22 | 0.032 | 313.9 | 316.40 .149 |  |
| $18455+0530$ | 7.0644 | 0.165 | 96.2 | 9.0 | 2001.5697 | 315.50 .155 | HARTKOPF |
| 11640 | FIN 332 Aa (II) | 27.01 | 1994.46 | 0.798 | 137.1 | 317.00 .154 |  |
| $18455+0530$ | 13.3284 | 0.095 | 105.6 | 13.5 | 2001.5697 | 316.30 .160 | HARTKOPF |
| 11640 | FIN 332 Aa | 57.92 | 1992.88 | 0.166 | 131.5 | 314.60 .156 |  |
| $18455+0530$ | 6.2157 | 0.174 | 98.8 | 79.0 | 1997.3945 | 313.50 .164 | CVETKOVIC |
| 11640 | FIN 332 Bb (I) | 100.14 | 1973.46 | 0.256 | 140.5 | 298.10 .104 |  |
| $18455+0530$ | 3.5950 | 0.170 | 103.8 | 108.6 | 2001.5697 | 295.80 .098 | HARTKOPF |

## NEW ORBITS (continuation)

| $\begin{gathered} \text { ADS } \\ \alpha 2000 \delta \end{gathered}$ | Name <br> n | $\begin{gathered} \mathbf{P} \\ \mathbf{a} \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ \mathrm{i} \end{gathered}$ | $\begin{aligned} & \mathbf{e} \\ & \omega \end{aligned}$ | $\Omega(2000)$ <br> Last ob. | $\begin{aligned} & 2003 \\ & 2004 \end{aligned}$ | Author(s) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11640 | FIN 332 Bb (II) | 34.49 | 1972.65 | 0.988 | 235.2 | 297.70 .095 |  |
| $18455+0530$ | 10.4378 | 0.201 | 111.7 | 93.3 | 2001.5697 | 294.70 .083 | HARTKOPF |
| 11640 | FIN 332 Bb | 93.92 | 1972.23 | 0.242 | 140.3 | 117.80 .109 |  |
| $18455+0530$ | 3.8330 | 0.163 | 105.3 | 278.6 | 1997.3945 | 115.50 .103 | CVETKOVIC |
|  | WOR 9 | 210.09 | 1937.47 | 0.150 | 154.3 | 279.40 .564 | ZIRM |
| $20302+2651$ | 1.7136 | 1.421 | 108.0 | 130.8 | 1996.626 | 275.90 .547 |  |
|  | FIN 336 | 43.48 | 1972.28 | 0.593 | 170.3 | 127.70 .123 |  |
| 20311-1503 | 8.2803 | 0.124 | 55.1 | 96.1 | 1996.5320 | 131.50 .123 | CVETKOVIC |
|  | MCA 62 Aa | 56.41 | 1974.08 | 0.104 | 93.6 | 271.80 .133 |  |
| $20410+3905$ | 6.3818 | 0.134 | 86.2 | 330.7 | 1988.6631 | 272.20 .139 | CVETKOVIC |
|  | LDS 720 BC | 209. | 2082. | 0.256 | 50. | 173.13 .012 | HARTKOPF |
| 20452-3120 | 1.7225 | 3.18 | 137. | 36. | 1991.46 | 171.82 .984 | \& MASON (x) |
| 14424 | BU 367 AB | 99.99 | 1934.17 | 0.256 | 118.5 | 141.50 .33 | SCARDIA |
| $20550+2805$ | 3.6002 | 0.407 | 68.5 | 185.0 | 2001.707 | 143.60 .31 | et al. (*) |
| 14942 | A 2288 | 105.66 | 1949.52 | 0.623 | 130.2 | 235.40 .31 | SCARDIA |
| $21243+0343$ | 3.4071 | 0.294 | 130.0 | 79.4 | 1995.574 | 233.90 .31 | et al. (*) |
|  | FIN 330 AB | 20.75 | 1984.64 | 0.590 | 27.8 | 343.10 .044 |  |
| 21477-3054 | 17.3488 | 0.096 | 114.5 | 179.3 | 1996.8240 | 287.90 .025 | CVETKOVIC |
|  | HO 183 | 122.52 | 1972.22 | 0.944 | 27.9 | 223.92 .079 | ZIRM |
| $22248+2233$ | 2.9384 | 1.315 | 140.4 | 348.4 | 1996.87 | 223.62 .109 |  |

(*) SCARDIA, PRIEUR, KOECHLIN and ARISTIDI
(x) NOTE: LDS 720 (WDS 20452-3120) is a high common-proper-motion triple, comprised of an $\sim 80$ arcminute AB pair and a 3-4 arcsecond BC pair. Following up on a comment by F.M. Rica Romero (Spanish American League of Astron., Circ $\sharp 1$, 2001) orbital analysis of BC determined that several observations in the WDS attributed to it were actually of a similar binary located $\sim 80$ arcseconds south of LDS 720A. As the first measure of this pair appears to have been by Charles Worley in 1978, it has been designated WDS 20452-3122 $=$ WOR 40.

## C.D. Scarfe

This is a short summary of the business meeting of Commission 26, which took place in the afternoon of July 18, 2003, during the recent IAU General Assembly in Sydney. It was chaired by the outgoing president, C. Scarfe, and was attended by the following: C. Allen, F. Arenou, R. Argyle, A. Boden, J. Davis, F. Fekel, W. Hartkopf, J. Kubát, J. Ling, B. Mason, T. Oswalt, T. Pauls, D. Pourbaix, W. Tango, T. ten Brummelaar, A. Tokovinin, N. Turner, W. van Altena, E. Weis and H. Zinnecker. A more complete report will be published in the IAU Transactions, and a preprint of that report is available on the Commission's website.
C. Scarfe gave a report on events during the past triennium. He announced the deaths, during that period, of members N. Argue, E. Cabrita, M. Herrera, and K. Strand, as well as that of D. Zulevic during the previous triennium, and the meeting observed a few moments of silence in their memory.

Twenty new members have joined the Commission, bringing the total membership to 128 , from 34 countries.

The chairman then reported on the recent election, in which just over half the membership voted. For the period 2003 to 2006, the president will be W. Hartkopf, and the vice-president, C. Allen. The OC will be made up of new members J. Davis, E. Oblak and T. Oswalt, along with continuing members F. Fekel, P. Lampens and J. Ling.

The chairman then gave a brief account of IAU Colloquium 191, held in Mérida, Yucatán, México in February 2003, and followed it with some remarks on other proposals for meetings, which had not been accepted by the Executive Committee. He concluded with some comments on the new rules for the conduct of Commission and Division operations.
W. Hartkopf gave a short summary of developments at the Commission's website, and invited suggestions for further improvements. It is intended that the site's URL will remain http://ad.usno.navy.mil/wds/dsl.html\#iau for the next three years at least.
B. Mason spoke about Special Session 3 on a new classification scheme for double stars. That session had approved a resolution adopting the WDS scheme and encouraging completion of a complete catalogue by the Washington group. The Commission endorsed that resolution, and is currently setting up a Working Group to support that work.
J. Ling discussed the history and current status of the Commission's Information Circulars, which were begun by P. Muller almost fifty years ago. They are now distributed electronically, and their contents are becoming increasingly diverse. They have ISSN number 1024-7769, and are listed as IAUDS on the NASA Astrophysics Data System. Several new directions for the Circulars were discussed.
W. Hartkopf thanked C. Scarfe and the outgoing OC members for their efforts during the past three years, and then turned his attention to the next three. Some possible topics and sites for meetings were discussed, as well as future catalogues and a CDROM that would collect several of the latter together.

There followed several short reports on major new observing facilities and additions to established ones. J. Davis described recent observations with the Sydney University Stellar Interferometer (SUSI). T. ten Brummelaar outlined the approach to completion of the CHARA array on Mt. Wilson. T. Pauls spoke about recent developments at the Navy Prototype Optical Interferometer. Finally, H. Zinnecker pointed out that the first results had been obtained with the Very Large Telescope Interferometer.

Next came some short reports on new major catalogues. B. Mason reported a large increase in the size of the Washington Double star Catalog, and announced that a new CD version will shortly be available. W. Hartkopf described the rapid progress of the USNO CCD Astrographic Catalog and a project to re-scan the epoch-1930 plates of the AGK2 using modern equipment. Then D. Pourbaix spoke about the Base de données des étoiles doubles et multiples de Besançon, on behalf of E. Oblak, who was unable to attend. He also described his own work for Commission 30 on the Ninth Catalogue of Spectroscopic Binary Orbits, since it is also relevant to Commission 26.
R. Argyle followed these talks with a discussion of amateur projects in doublestar measurement, some of which are very substantial and of high quality.
H. Zinnecker noted that some recently discovered giant planets are in orbit around components of binary stars, which raises the interesting question of the long-term stability of such planets' orbits.

A letter from P. Lampens was read. It expressed concern over the difficulty encountered by some double star observers in gaining access to telescopes to pursue longterm projects, and in getting data published in widely read journals, so that others may use them, even if it is premature to draw astrophysically useful conclusions from them. There was widespread agreement that these concerns affect many people, and the meeting agreed to include formal statements of concern in the published report. For details, please see the preprint on the Commission website.

The meeting was then adjourned.

## ANNOUNCEMENT

A New Cassegrain telescope ( $\mathrm{D}=0.62 \mathrm{~m} ; \mathrm{F}=6.2 \mathrm{~m}$ ) has been installed at the Ramón María Aller Observatory. Among its main missions, double and multiple star research will occupy a prominent place.

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The deadline for contributions to Information Circular No. 152 is:
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